



Bid Number/बोली क्रमांक (बिड संख्या):
GEM/2023/B/4110515
Dated/दिनांक : 19-10-2023

Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	09-11-2023 13:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	09-11-2023 13:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	90 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Mines
Department Name/विभाग का नाम	Na
Organisation Name/संगठन का नाम	Jawaharlal Nehru Aluminium Research Development And Design Centre (jnarddc)
Office Name/कार्यालय का नाम	West
Total Quantity/कुल मात्रा	11
Item Category/मद केटेगरी	Double walled SS mixing cum reaction unit planetary mixer has to be fabricated , Discharge conveyor in SS has to be provided in modification , Existing MS agitator has to be replaced by SS agitator , Easily operational door Lid type to close and open as per scope of works , The vessel opening expanding material outlet must be redesigned as per scope , Existing belt and pulley reduction system has to be replaced , Existing 15 HP motor has to be used for the agitator drive , Storage silo for dry feed with conveyor to the mixing reactor unit has , Trays for slurry handling has be provided , Existing roller stand for tray sliding movement has be extended , Other remaining works as per scope of works
BOQ Title/बीओक्यू शीर्षक	MODIFICATION OF GEOPOLYMER MINI PLANT
Minimum Average Annual Turnover of the bidder (For 3 Years)/बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का)	10 Lakh (s)
OEM Average Turnover (Last 3 Years)/मूल उपकरण निर्माता का औसत टर्नओवर (गत 3 वर्षों का)	15 Lakh (s)
Years of Past Experience Required for same/similar service/उन्हीं/समान सेवाओं के लिए अपेक्षित विगत अनुभव के वर्ष	3 Year (s)
MSE Exemption for Years Of Experience/अनुभव के वर्षों से एमएसई छूट/ and Turnover/टर्नओवर के लिए एमएसई को छूट प्राप्त है	Yes

Bid Details/बिड विवरण	
Startup Exemption for Years Of Experience/अनुभव के वर्षों से स्टार्टअप छूट/ and Turnover/ टर्नओवर के लिए स्टार्टअप को छूट प्राप्त है	Yes
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Experience Criteria,Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,OEM Annual Turnover *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Past Performance/विगत प्रदर्शन	50 %
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	No
Type of Bid/बिड का प्रकार	Two Packet Bid
Primary product category	Double walled SS mixing cum reaction unit planetary mixer has to be fabricated
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	3 Days
Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
Estimated Bid Value/अनुमानित बिड मूल्य	650000
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation
Financial Document Required/वित्तीय दस्तावेज की आवश्यकता है।	Yes

EMD Detail/ईएमडी विवरण

Advisory Bank/एडवाइजरी बैंक	IDBI Bank
EMD Amount/ईएमडी राशि	20000

ePBG Detail/ईपीबीजी विवरण

Advisory Bank/एडवाइजरी बैंक	IDBI Bank
ePBG Percentage(%) /ईपीबीजी प्रतिशत (%)	3.00
Duration of ePBG required (Months)/ईपीबीजी की अपेक्षित अवधि (महीने).	14

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service

Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy./जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित केटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज़ प्रस्तुत करने हैं। एमएसई केटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable./ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए।

Beneficiary/लाभार्थी :

SENIOR ADMIN OFFICER

West, NA, Jawaharlal Nehru Aluminium Research Development and Design Centre (JNARDDC), Ministry of Mines (R Srinivasan)

Splitting/विभाजन

Bid splitting not applied/बोली विभाजन लागू नहीं किया गया.

Reserved for Make In India products

Reserved for Make In India products	Yes
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MSE Purchase Preference/एमएसई खरीद वरीयता

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
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1. If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
2. If the bidder is a Startup, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to their meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
3. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
4. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.
5. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
6. Bid reserved for Make In India products: : Procurement under this bid is reserved for purchase from Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time

to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. However, eligible micro and small enterprises will be allowed to participate. The minimum local content to qualify as a class 1 local supplier is denoted in the bid document. All bidders must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which the bid is liable to be rejected. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020 . In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

7. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 25%(selected by Buyer) percentage of total QUANTITY. The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023

[OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

8. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

9. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 50% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU / Public Listed Company. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

Double Walled SS Mixing Cum Reaction Unit Planetary Mixer Has To Be Fabricated

(Minimum 50% Local Content required for qualifying as Class 1 Local Supplier)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/प्रेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Lalit Mohan	440023,Opp Wadi Police Station Amarawati Road	1	75

Discharge Conveyor In SS Has To Be Provided In Modification

(Minimum 50% Local Content required for qualifying as Class 1 Local Supplier)

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1	Lalit Mohan	440023,Opp Wadi Police Station Amarawati Road	1	75

Existing MS Agitator Has To Be Replaced By SS Agitator

(Minimum 50% Local Content required for qualifying as Class 1 Local Supplier)

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1	Lalit Mohan	440023,Opp Wadi Police Station Amarawati Road	1	75

Easily Operational Door Lid Type To Close And Open As Per Scope Of Works

(Minimum 50% Local Content required for qualifying as Class 1 Local Supplier)

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S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Lalit Mohan	440023,Opp Wadi Police Station Amarawati Road	1	75

The Vessel Opening Expanding Material Outlet Must Be Redesigned As Per Scope

(Minimum 50% Local Content required for qualifying as Class 1 Local Supplier)

Technical Specifications/तकनीकी विशिष्टियाँ

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Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Lalit Mohan	440023,Opp Wadi Police Station Amarawati Road	1	75

Existing Belt And Pulley Reduction System Has To Be Replaced

(Minimum 50% Local Content required for qualifying as Class 1 Local Supplier)

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Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Lalit Mohan	440023,Opp Wadi Police Station Amarawati Road	1	75

Existing 15 HP Motor Has To Be Used For The Agitator Drive

(Minimum 50% Local Content required for qualifying as Class 1 Local Supplier)

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Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Lalit Mohan	440023,Opp Wadi Police Station Amarawati Road	1	75

Storage Silo For Dry Feed With Conveyor To The Mixing Reactor Unit Has

(Minimum 50% Local Content required for qualifying as Class 1 Local Supplier)

Technical Specifications/तकनीकी विशिष्टियाँ

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Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
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Trays For Slurry Handling Has Be Provided

(Minimum 50% Local Content required for qualifying as Class 1 Local Supplier)

Technical Specifications/तकनीकी विशिष्टियाँ

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Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Lalit Mohan	440023,Opp Wadi Police Station Amarawati Road	1	75

Existing Roller Stand For Tray Sliding Movement Has Be Extended

(Minimum 50% Local Content required for qualifying as Class 1 Local Supplier)

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Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Lalit Mohan	440023,Opp Wadi Police Station Amarawati Road	1	75

Other Remaining Works As Per Scope Of Works

(Minimum 50% Local Content required for qualifying as Class 1 Local Supplier)

Technical Specifications/तकनीकी विशिष्टियाँ

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Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Lalit Mohan	440023,Opp Wadi Police Station Amarawati Road	1	75

Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें

1. Generic

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

2. Generic

After award of contract - Successful Bidder shall have to get Detailed Design Drawings approved from buyer before starting fabrication. Successful Bidder shall submit Detailed Design Drawings for Buyer's approval, within 7 days of award of contract. Buyer shall, either approve the drawings or will provide complete list of modification required in the drawings within 5 days. Seller shall be required to ensure supply as per approved Drawings with modifications as communicated by Buyer. If there is delay from

buyer side in approval of drawing- the delivery period shall be refixed without LD for the period of delay in approval of Drawing.

3. Generic

Actual delivery (and Installation & Commissioning (if covered in scope of supply)) is to be done at following address

JNARDDC
WADI
AMRAVATI ROAD
NAGPUR
MAHARASHTRA
.

4. Generic

Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.

5. Generic

Experience Criteria: The Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for 3 years before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the primary product having highest value should meet this criterion.

6. Generic

Installation, Commissioning, Testing, Configuration, Training (if any - which ever is applicable as per scope of supply) is to be carried out by OEM / OEM Certified resource or OEM authorised Reseller.

7. Generic

OPTIONAL SITE VISIT:

1. The Bidder is advised to visit and examine the installation site and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid. The costs of visiting the site shall be borne by the Bidder.

NO CHARGES FOR THE VISITING WILL BE PAID BY JNARDDC

2. The Bidder representative shall be allowed entry upon consignee premises for such visits, only upon the express conditions that the Bidder will release and indemnify the Buyer and Consignee against all liabilities arising out of such visit including death or injury, loss or damage to property, and any other loss, damage, costs, and expenses incurred as a result of such visit.

3. The Bidder shall not be entitled to hold any claim against Buyer for noncompliance due to lack of any kind of pre-requisite information as it is the sole responsibility of the Bidder to obtain all the necessary information with regard to site, surrounding, working conditions, weather etc. on its own before submission of the bid.

8. Generic

Without prejudice to Buyer's right to price adjustment by way of discount or any other right or remedy available to Buyer, Buyer may terminate the Contract or any part thereof by a written notice to the Seller, if:

- i) The Seller fails to comply with any material term of the Contract.
- ii) The Seller informs Buyer of its inability to deliver the Material(s) or any part thereof within the stipulated Delivery Period or such inability otherwise becomes apparent.
- iii) The Seller fails to deliver the Material(s) or any part thereof within the stipulated Delivery Period and/or to replace/rectify any rejected or defective Material(s) promptly.

- iv) The Seller becomes bankrupt or goes into liquidation.
- v) The Seller makes a general assignment for the benefit of creditors.
- vi) A receiver is appointed for any substantial property owned by the Seller.
- vii) The Seller has misrepresented to Buyer, acting on which misrepresentation Buyer has placed the Purchase Order on the Seller.

9. **Generic**

While generating invoice in GeM portal, the seller must upload scanned copy of GST invoice and the screenshot of GST portal confirming payment of GST.

10. **Forms of EMD and PBG**

Bidders can also submit the EMD with Account Payee Demand Draft in favour of

JNARDDC
payable at
NAGPUR

. Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.

11. **Forms of EMD and PBG**

Bidders can also submit the EMD with Payment online through RTGS / internet banking in Beneficiary name

JNARDDC
Account No.
041104000192392
IFSC Code
IBKL0000041
Bank Name
IDBI
Branch address
CIVIL LINES NAGPUR

. Bidder to indicate bid number and name of bidding entity in the transaction details field at the time of on-line transfer. Bidder has to upload scanned copy / proof of the Online Payment Transfer along with bid.

12. **Forms of EMD and PBG**

Successful Bidder can submit the Performance Security in the form of Account Payee Demand Draft also (besides PBG which is allowed as per GeM GTC). DD should be made in favour of

JNARDDC
payable at
NAGPUR

. After award of contract, Successful Bidder can upload scanned copy of the DD in place of PBG and has to ensure delivery of hard copy to the original DD to the Buyer within 15 days of award of contract.

13. **Forms of EMD and PBG**

Successful Bidder can submit the Performance Security in the form of Payment online through RTGS / internet banking also (besides PBG which is allowed as per GeM GTC). On-line payment shall be in Beneficiary name

JNARDDC
Account No.
041104000192392
IFSC Code
IBKL0000041
Bank Name
IDBI

Branch address
NAGPUR

. Successful Bidder to indicate Contract number and name of Seller entity in the transaction details field at the time of on-line transfer. Bidder has to upload scanned copy / proof of the Online Payment Transfer in place of PBG within 15 days of award of contract.

14. **Buyer Added Bid Specific ATC**

Buyer Added text based ATC clauses

Complete modification works and scope of works in existing plant is enclosed with this bid.

BoQ price column is only for eeven(11) tittle , however bidder have to understand the scope of works and total cost of the modification works of be calculated and to be quoted in price bid accordingly.

Price to be calculated with all charges(supply, installation , modification and labour charges , GST). No other charges will be paid by JNARDDC.

Disclaimer/अस्वीकरण

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. Any clause(s) incorporated by the Buyer regarding following shall be treated as null and void and would not be considered as part of bid:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process.
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

This Bid is also governed by the General Terms and Conditions/ यह बिड सामान्य शर्तों के अंतर्गत भी शासित है

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

---Thank You/धन्यवाद---

**REFURBISHMENT OF EXISTING GEOPOLYMER MINI PILOT
PLANT FOR MAKING LIGHT WEIGHT FOAM (LWFP) PRODUCTS AND
GEOPOLYMER PRODUCTS (GEOP) FROM INDUSTRY REJECTS**

PART 1

MODIFICATION WORK REQUIRED IN THE EXISTING UNIT

The following modifications in the existing mini-pilot plant (Components) are required for making bricks / blocks / concrete based on foam based / expanding materials and geopolymer materials .

1. Double walled, SS mixing cum reaction unit (planetary mixer) has to be fabricated to fit inside the existing MS tank for supporting expanding materials. Washing inlet and outlets has to be fitted for proper cleaning of leftover materials during the intervals (it takes care of providing easy material charging, washing, cleaning and maintenance etc.)
2. Discharge conveyor in SS has to be provided and connected to the bottom of above said SS tank (planetary mixer).
3. Existing MS agitator has to be replaced by SS agitator to generate three-dimensional flow of expanding materials inside the vessel, to achieve a combination of convective and shears mixing force for uniform dispersion of minor as well as base ingredients of raw materials.
4. Easily operational door **(Lid type to close & open)** has to be fitted on the top of the vessel for easy input of 150-300 kg dry materials in the mixing vessel.
5. The vessel opening (expanding material outlet) must be redesigned for easy discharge of viscous slurry in to the mould within a short time span (60-90 seconds max.) for quick shaking and setting on the vibrating tables.
Above modifications are necessary for assuring **compulsorily fast and simple discharge of just expanding materials** during the agitation through full bore open outlet.
6. Existing belt and pulley reduction system has to be replaced by motor gearbox speed reduction system along with **VFD (variable speed drive)** arrangement.
7. **Existing 15 HP motor has to be used** for the agitator drive
8. Storage silo for dry feed with conveyor to the mixing / reactor unit has to be provided
9. Trays for slurry handling has be provided (3-4 nos)

10. The existing roller stand for tray sliding / movement has be extended further 5-6 feet with L Shape structure for resting the loaded tray for setting and drying at room temperature
11. **Existing Oven** (Drying system 100-200 °C) has to be shifted as per the final position of roller stands.
12. **Existing chemical feed pump** and **feed tank** has to be used in the modified system, (opening of exhibiting pipelines for appropriate relocation and refitting with necessary modifications as requirements for the operation of modified plant designs / process)
13. Control panel has to be provided for all electrical devices with proper cable laying.
14. Complete unit (Mini-pilot plant) has to be shifted to the other part of shed for convenient operation of plant for better safety and ease of plant operation in view of better height and proper air circulation.
15. Time duration: 3-4 months (Max.) for competition of renovation works followed by trial runs.
16. The executor / fabricator must ensure the scope and adaptability of minor modification in the design parameters of mini-pilot plant in case of requirement for improvement of operation and output during the installation and working.

PART 2

DETAILED SPECIFICATION OF EXISTING PLANT

MINI-PILOT PLANT FOR GEOPOLYMER BRICK MAKING

1. PAN MIXER

Capacity	• 250 - 300 Kg
Pan Dia	• 1300 mm x 800 mm height
Outer Shell	• 6 mm thick with MS Plate
Inside Lining Plate	• 6 mm thick [hard Plate]
Bottom Plate	• 8mm thick
Drive with crown & Pinion	• 7 x 41(No of crown 41 Nos) (No of teeth 7 Nos)
Mounting Bearing Block	• UCP 212 (Bearing plumber block)
Main shaft with Housing	• EN8 dia 100 mm *730 mm long
Bearing Housing	• Dia 150 mm x 350 mm long [both sided taper roller bearing no 32214]
Output RPM	• Variable [20 to 60 RPM]
Motor	• 15 HP 900 RPM with ISI Mark
Motor Pulley	• Type : C type, 3-4''
	• Pulley 3C
Shaft Pulley	• 22'' 3C
Rotating with paddle Including water and chemical spray pump	

2. VIBRATING TABLE

Table Size	36'' x 24 '' [Rectangular]
Frame Material	• Channel 75 mm and 6mm
	• Top Plate with motor mounting 3HP 1400 RPM
	• ISI Marked
Sliding Roller	• Roller Size :

	Dia 50mm x 600mm Long having both side bearing <ul style="list-style-type: none"> • No. 6206 with EN8 shaft • Size : dia 28mm x 750mm long
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3. ROLLER (OR CONVEYOR)

MS Channel Frame	75mm total length 18 feet with roller pipe size diameter 50 mm x 600 mm long with both bearing 6206 and shaft diameter 28mm x 750mm long
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4. OVEN (Oven fixed over conveyor table)

Body of Oven Range Body Size Features (Additional)	<ul style="list-style-type: none"> • 1.5 mm MS Sheet 2 side • Heating coil (0 -250 °C) • Capacity 750mm width & 1000 mm height • Fitted with top side exhaust fan
Temperature range	<ul style="list-style-type: none"> • Heating 0 - 250 °C

5. MOULD

Size [Rectangular]	<ul style="list-style-type: none"> • Length 36" • Breadth 24" • Height 4"
Frame Material	<ul style="list-style-type: none"> • EN 8 Plate • Machined brick size 10" x 8" x 4" for 9 brick combination
Mechanism	<ul style="list-style-type: none"> • Partition plate with de-molding type
Operation	<ul style="list-style-type: none"> • Manual operation

PART 3

INFORMATION COMPONENT OF MINI-PILOT PLANT AFTER MODIFICATION

Proposal to modify the existing brick manufacturing unit / mini-pilot plant
OR
(Mixing of Raw Material & Preparation of Geopolymer Products)

- **Capacity:** 300 bricks per day for conducting feasibility studies
- **Raw materials :** Industrial rejects and commercially available chemicals
- **Method:** Molding of wet slurry made of industrial rejects and chemicals into bricks / blocks / Sheets / Concrete in standard size and shape molds
- **Product Use:** Building, Construction and Engineering Applications

Major Components of Mini-Pilot Plant Operation Unit

List of items to be supplied / fabricated / refurbished for running LWFP-GEOP plant unit

Sl.No.	NAME OF EQUIPMENT / ITEMS	Quantity
1	Mixer / 500 L Capacity [Planetary / Dry Gyrotory Mixer / Grinder Pulverizer / Blender]	1
2	Vibrating Table / 300kg (Min.)	2
3	Brick Mould [Three separate units to spread 50 kg slurry / unit]	3
4	Table (Stands) for brick molds	3
5	Brick cutting devise (Cutting arm) OR wire cutting	1
6	Trolley	1
7	Storage Tank for chemical mix	1
8	Motor/ Pump	1
9	Inclined screw	

- The mini pilot plant is intended for the feasibility study of light weight foamed products (LWFPs) and Geopolymer Products; which will be made of various solid waste materials such as mining rejects, processed rejects, ash, sludge, slag et.
- The materials may be corrosive, possess high pH in the range 10 – 13 and viscous in nature.
- Other major additives may be commercially available foaming agents, chemicals and water.

PART 4

DETAILED SPECIFICATIONS OF COMPONENTS IN MODIFIED UNIT

SPECIFICATION OF ITEMS

1. Planetary Mixer (double helical blade) with Conventionally operated output		
Sl.No.	Item	Specification
1	Capacity	500 L
2	Vessel Body	Stainless Steel (SS-303)
3	Internal Diameter	800 mm
4	Height	1200 mm
5	Blade Type	Double Helical RH & LH blades made of SS-303
6	Motor	10 HP with suitable gear box up to 60 rpm.
<ul style="list-style-type: none">✎ The mixer must and blades needs to be fabricated in such a fashion that it generates a three-dimensional flow of materials inside the vessel, achieving a combination of convective and shears mixing force for uniform dispersion of minor as well as base ingredients.✎ Appropriate door size must be provided for easy input of 200-300 kg dry materials in the mixing vessel.✎ Design should be such that it takes care of easy material charging, washing, cleaning and maintenance etc.✎ Central agitator shaft should not be provided bottom bearing support for elimination of dead spots and proper cleaning.✎ The vessel opening need to be designed for easy discharge of slurry in to the mould within a short time span (30-60 seconds).✎ Discharge of the slurry must compulsorily fast and simple as full bore open.		

2. Vibrating Table with Motor		
1	Capacity	300 Kg (Minimum)
2	Motor	1 HP
3	Body Frame	Mild Steel with height adjusting jack with wheel
4	Transportation	Moving on rails
<ul style="list-style-type: none">✎ The vibrating table with leveling screw needs to be designed to carry a load of 300 kg (Min.)✎ Require height adjusting jack for rise or lower the height for matching with the height of brick mould and stand for easy handling and shifting of materials.✎ Preferable dimension of vibrating tables of table top size are 100cm x 100cm (Min.)✎ Vibrating motor must impart sufficient vibrations for homogenizing wet slurry in brick molds placed on the table top.✎ The table top must be uniform and spacious for easy handling of brick molds on top.		

- ✎ Stops must be provided along its edges to prevent moulds from walking off the table during vibration.
- ✎ A speed regulation handle or control device is required for increasing or decreasing the frequency of vibration.
- ✎ On off switch is required for starting and stopping the motor operation.
- ✎ Compatibility for operation on 440 volts, 3 phases, 50 cycles, A.C. supply.

3. Brick Mold

1	Capacity	Suitable for making 50 no. of brick of size 22 x 11 x 7.5 cm
2	Transportation	Moving on rails
3	Body Frame	Mild Steel

- ✎ Block moulds are meant for making foamed light weight blocks of specific dimension and shape.
- ✎ The homogenized wet slurry of raw materials will be poured collectively in the single compartment blocks for setting as well as expansion. The brick mould need to be provided grooves for passing the wire / threads or mesh of brick cutter (cutting arm) in such a fashion that the expanded mass of raw material will be cut in to specific number of standard size bricks (22 cm x 11 cm x 7.5 cm) in customized shape (rectangular) for curing.
- ✎ The sides of brick molds must be provided with provision for closing and opening for easy cleaning as well as assembling and disassembling.

4. Table (Stand) for brick mold

1	Capacity	300 Kg (Min.)
2	Body Frame	Mild Steel
3	Transportation	Rail

- ✎ The table must be fabricated in mild steel
- ✎ Must be strong enough to hold an approximate weight of 300 kg (Min.)
- ✎ The Legs (bottom) should be of uniform height for providing proper leveling

5. Brick Cutter (Cutting Arm)

1	Capacity	Suitable for making 50 no. of brick of size 22 x 11 x 7.5 cm
2	Transportation	Moving on rails
3	Body and Frame	Mild Steel with rotating thread (Nylon or rope wire)
4	Cutting length	160 cm
5	Depth	10 cm
6	Operation	By suitable electrical motor

6. Trolley (Platform Type)

1	Capacity	300 kg (Minimum)
2	Transportation	Moving on rails with 4" wheel and rail

3	Body and Frame	Mild Steel
4	Operation	Manual
<ul style="list-style-type: none"> ✎ The trolleys will be operated manually on rails in between mixer point to tables for carrying brick/mould/samples ✎ The trolleys must be strong enough to carry the load of 100-150 bricks in every run between mixer and table position (brick molding). ✎ Rails must be provided for running trolleys with 4" wheels. ✎ Appropriate stops or locks must be provided along the trolley edges. ✎ Trolleys must be fitted with manual breaks for speed control and safety ✎ The level (height) of trolley platform must be in accordance with the height of tables so that no lifting of bricks molds is required for placing on the tables. ✎ The wheels must be strong, smooth and quiet. 		

7. Tank with Agitator

1	Capacity	1000 L with pump and pipe fittings
		Fitted with agitator (Motor & Blades) for intermittent agitation of chemical mix. in Sintex tank
<ul style="list-style-type: none"> ✎ The tank must be made of good quality corrosion resistance materials (such as polyethylene, teflon coat or steel etc.) so that the corrosive (alkaline or acidic) mixture can be stored for the plant run. ✎ The inside and outside of tank must be made of stable material. ✎ Appropriate piping and fittings must be provided for transferring tank storage to the mixer. ✎ A good quality agitator made of steel must be provided for intermittent mixing of reagents in the tank. ✎ Suitable motor, wiring, switches etc. must be provided along with the agitator. ✎ The agitator shaft must be long enough to reach the bottom of storage tank. 		

8. Motor for pumping chemical mix in storage tank

1	Capacity	6200 L
2	Motor	½ HP / 0.37 KW Displacement at 20 meters. 6200 L per hour
3	Body	SS (Grade SS-316)

Supplier must ensure the scope and adaptability of minor modification in the design parameters of mini-pilot plant in case of requirement for improvement of operation and output during the installation and working.

